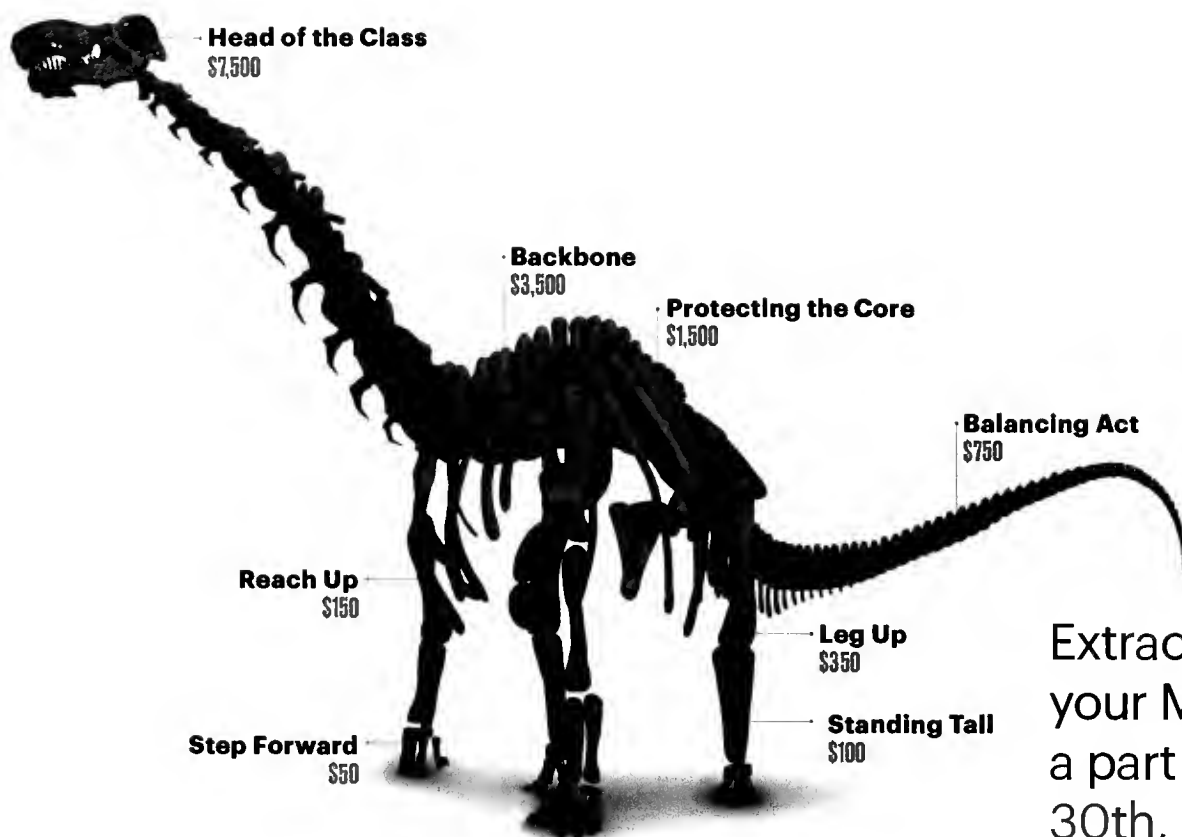


IN THE FIELD

Field Museum
Member Magazine

Vol. 89, No. 2
Summer 2018





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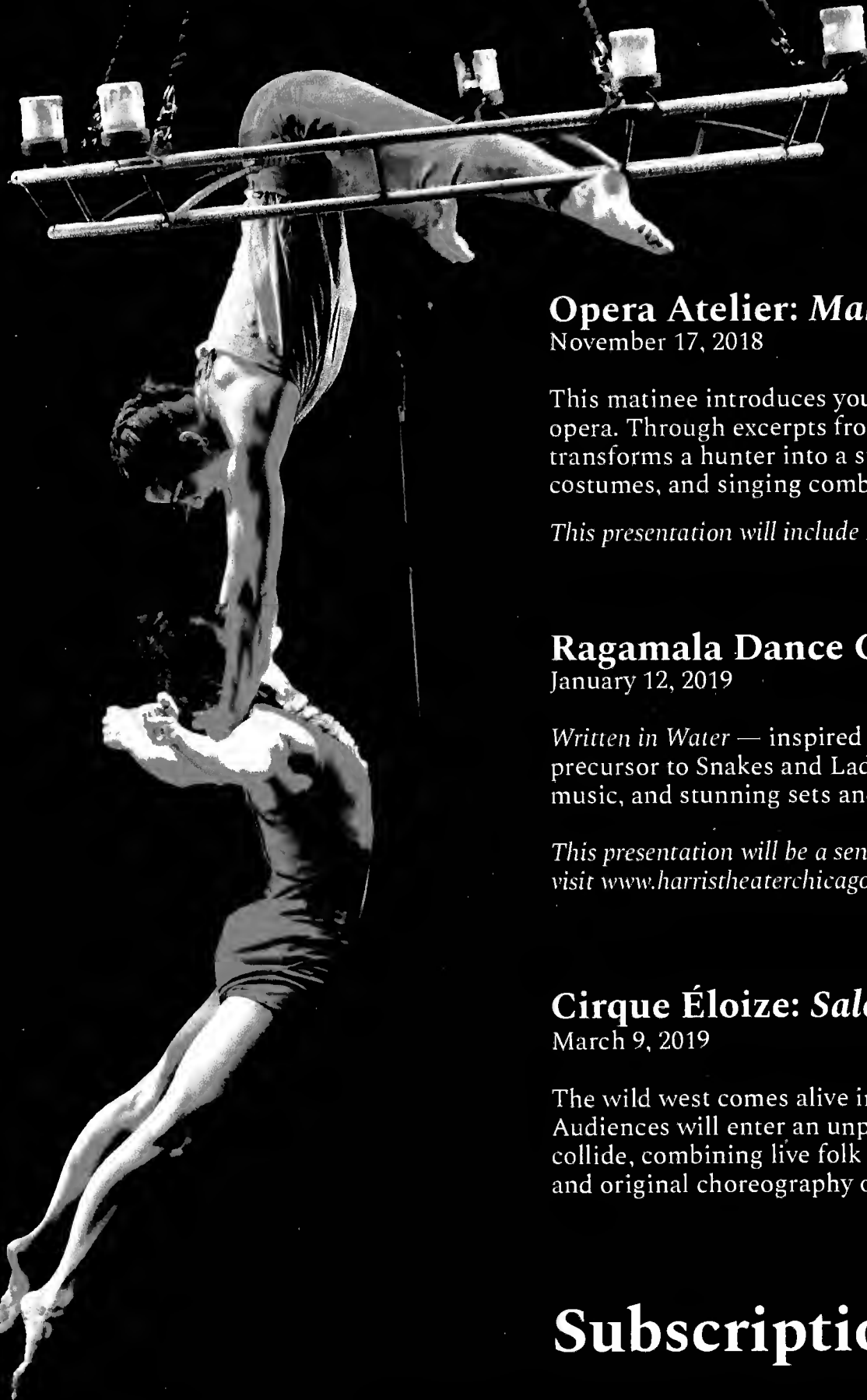
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Accessible programs designed for ages 4–12, where everyone is encouraged to laugh, clap, and experience the arts in their own way. Saturdays at 2PM.



Cirque Éloize. Photo by Patrick Lazic.

Opera Atelier: Making an Opera

November 17, 2018

This matinee introduces young audiences to the magic and drama of opera. Through excerpts from *Actéon*, the tale in which the goddess Diana transforms a hunter into a stag, Opera Atelier will illuminate how sets, costumes, and singing combine to create a mythical world onstage.

This presentation will include ASL interpretation.

Ragamala Dance Company: Written in Water

January 12, 2019

Written in Water — inspired by the Indian board game Paramapadam, a precursor to Snakes and Ladders — combines classical Indian dance, live music, and stunning sets and projections to enchant audiences of all ages.

This presentation will be a sensory-friendly performance. For more information, visit www.harristheaterchicago.org/plan-your-visit/accessibility.

Cirque Éloize: Saloon

March 9, 2019

The wild west comes alive in Cirque Éloize's newest creation, *Saloon*. Audiences will enter an unpredictable world where theater and circus collide, combining live folk music with the incredible strength, agility, and original choreography of the boundary-breaking ensemble.

Subscriptions start at \$18

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IN THE FIELD

Field Museum
Member Magazine

Vol. 89, No. 2
Summer 2018

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Franck Mercurio

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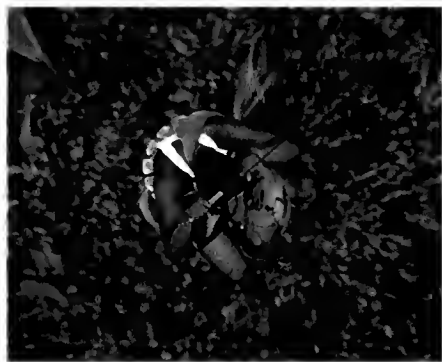
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ON THE COVER

A member of the Keller Science Action Center's advance team is lowered from a helicopter during the 2010 rapid inventory in Peru's Yaguas watershed. Yaguas was recently designated a national park by the Peruvian government.

Cover photo by Alvaro del Campo.

Let us know your thoughts about *In The Field* magazine. Email your comments to ITF@fieldmuseum.org

IN THE FIELD (ISSN #1051-4546) is published three times a year by the Field Museum. Opinions expressed by authors are their own and do not necessarily reflect the policy of the Field Museum. Notification of address change should include address label and should be sent to Membership.

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© JAN LARIVIERE



Dear Member,

(Above) A rescued elephant and her handler visit a hotel in India where Richard W. Lariviere recently stayed with a group from the Field Museum.

You may have noticed a bold new design for this magazine. As the Field Museum celebrates our 125th anniversary—and looks forward to our next 125 years of scientific discovery—we are introducing a new brand at an important time.

Our anniversary is a galvanizing moment to clarify who we are, what we do, and what we stand for. At a time when people are coming together to acknowledge the importance of science, we are inspiring the world to see the Field as the dynamic, forward-thinking scientific leader we've always been.

Our brand—represented, in part, by a new logo—reflects this shift in attitude. But this revitalization goes far beyond a change in visual identity; it declares and reinforces our mission to fuel a journey of discovery, enabling solutions for a brighter future.

The Field Museum exists, and has always existed, to be the voice and champion for the future of our natural world and the human cultures that call it home. We have worked relentlessly to pursue ways of making it better. And today is no different. Our revitalized brand and our rally cry “Earth. We’re On It” embody the strength, vigor, and sense of responsibility the Museum brings to its work—and the planet—every day. Adapting to environmental change. Preserving biodiversity. Keeping ancient cultures alive. These are just a few examples of the ways the Field is exploring our world and tackling the challenges that affect the planet we all share.

We invite you to join us in this next chapter. I hope you enjoy reading this redesigned issue of *In The Field* and the stories of how our research, collections, and public outreach impact the lives of all who visit the Field. Thank you for your continued support of the Museum and our mission.

RICHARD W. LARIVIERE, PHD

President and CEO



KYLE FLUBECKER PHOTOGRAPHY

Supporter Spotlight

ITW AND THE SPEER FAMILY

BY KACEE KELLUM AND KATY HARRISON

Few nonprofit-corporate relationships rival the Field Museum's partnership with Glenview-based manufacturing company ITW. Through the ITW Foundation's generous philanthropic support, executive leadership on the Museum's board, and employee volunteerism, this multi-layered partnership has consistently allowed the Field to pioneer new programs to fulfill its educational mission.

ITW's continuing "School Learning Experiences" gift allows the Museum to improve field trips, provide hands-on programs such as Curiosity Stations, develop new curricula, and empower educators to teach science in their classrooms through 2021.

Museum educators and scientists have also developed a partnership with ITW David Speer Academy to provide an immersive science internship. A STEM

high school in the Belmont-Cragin neighborhood on the west side of Chicago, the school is named in memory of David B. Speer who served as ITW Chairman until his death in 2012. Over the past school year, six Speer Academy seniors selected for this program divided their time between the Museum's botanical collections and in the digital education division.

"We are thrilled to help two of our treasured community partners—the Field Museum and ITW David Speer Academy—develop these internships to expose high school students to careers in the biological sciences," said Christopher O'Herlihy, Vice Chairman of ITW and Field Museum Trustee. "This type of internship is strategically aligned with the company's core values to support a scientific workforce for the future." O'Herlihy joined the Museum's Board of Trustees in 2017, succeeding retired Vice Chairman David Parry who continues his service as a Field Museum national trustee.

SCHOOL LEARNING
EXPERIENCE SPONSOR:



(Above) Longstanding Field Museum Women's Board member Barbara Speer interacts with seniors from ITW Speer Academy. Six Speer Academy students are participating in a new collections-based internship program at the Museum with support from ITW.

ITW—FIELD MUSEUM PARTNERSHIP HISTORY

- 1975–2018** Annual support of programs such as Women in Science and the Women's Board gala.
- 2005** ITW provides major support for *The Ancient Americas* exhibition
- 2011** ITW supports the development of the touring exhibition *Biomechanics: The Machine Inside* and the accompanying online educator toolkit.
- 2015** ITW commits \$2 million for School Learning Experiences programs and endowment
- 2018** ITW supports Field Museum 125th Anniversary

Dr. Goodall speaks
to Museum donors.

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JANE GOODALL AT THE FIELD

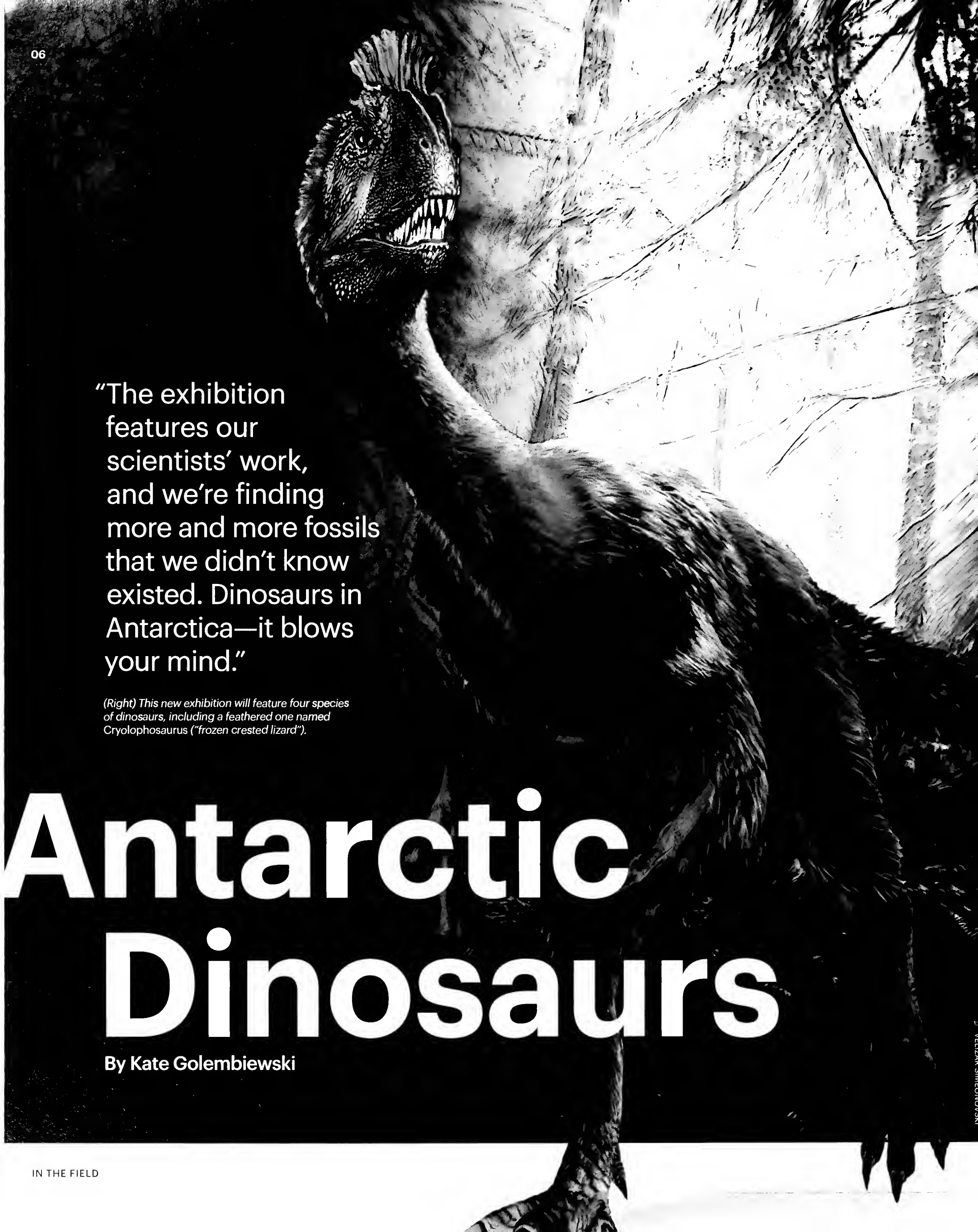
BY FRANCK MERCURIO

On Tuesday, April 3, world-renowned primatologist Jane Goodall, PhD, visited the Field Museum as an honored guest of the annual Women in Science luncheon. More than 1,000 people attended the event. Later, an audience of 850 gathered to hear Dr. Goodall speak with Museum President & CEO, Richard Lariviere, PhD, about her career and current conservation efforts, and Roots and Shoots, a program that empowers young people to build a better world. Said Goodall to the Field Museum audience, "We have a window of time, if we all start acting now, we can make the world a better place."

(Far right) The audience wished Dr. Goodall a happy birthday, which coincided with her visit to the Field.

(Right) Fans of Dr. Goodall take photos of artist Marla Friedman's bronze sculpture, The Red Palm Nut: Jane Goodall and David Greybeard, unveiled on the evening of April 3.





"The exhibition features our scientists' work, and we're finding more and more fossils that we didn't know existed. Dinosaurs in Antarctica—it blows your mind."

(Right) This new exhibition will feature four species of dinosaurs, including a feathered one named Cryolophosaurus ("frozen crested lizard").

Antarctic Dinosaurs

By Kate Golembiewski

Antarctica is forbidding with an average winter temperature of -56 degrees Fahrenheit (plus wind chill). A thick sheet of ice covers most of the continent; the exposed land is barren rock. Not much can survive there. You'll find penguins and seabirds, seals and whales in the surrounding waters, and a few other small critters like mites and worms. But between 195 and 235 million years ago, Antarctica was bursting with life—a lush, temperate region, closer to the equator and home to rhinoceros-sized dinosaurs and crocodile-sized amphibians.

On June 15, the Field's newest exhibition, *Antarctic Dinosaurs*, will reveal this lost world, illuminated by Field Museum scientists' expeditions to this now frozen continent and the fossil record indicating a very different previous environment.

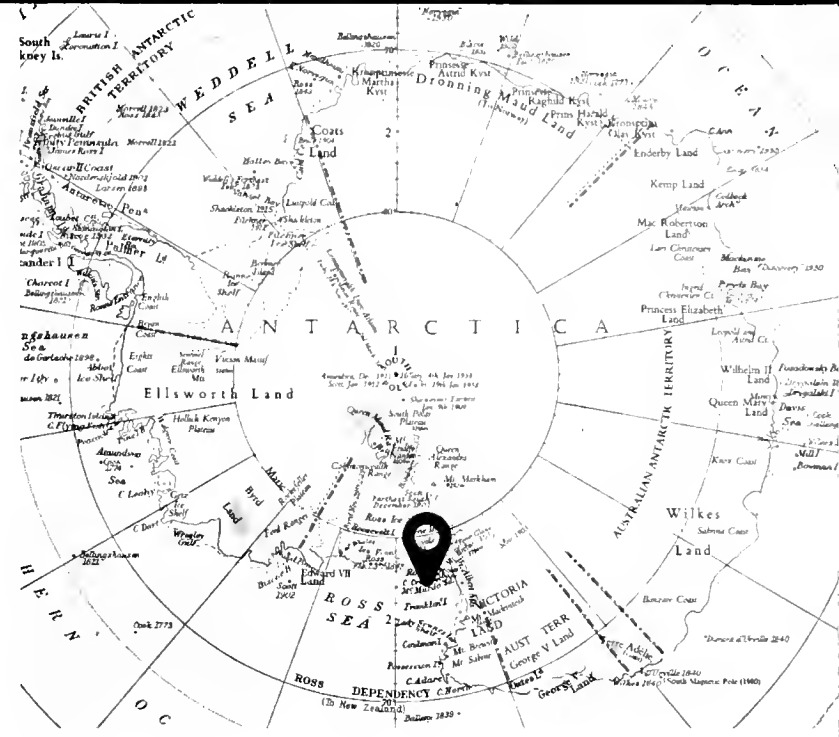
"It's an amazing opportunity for people to see and discover fossils from Antarctica and what they tell us about Earth's history," said Pete Makovicky, the Museum's Associate Curator of Dinosaurs, who has done extensive fieldwork in Antarctica. "We want visitors to feel like they're traveling to Antarctica, give them a historical perspective on scientific expeditions, and then take them back in time, as well as show them some of the newest and coolest discoveries in paleontology."

The exhibition will contain artifacts from both historical and modern expeditions, including a sled used by a member of Robert Falcon Scott's expedition, among the first adventurers to Antarctica more than 100 years ago. Also on display will be the thick red parkas worn by Field Museum scientists exploring Antarctica today. Visitors will get a sense of what goes into living and working in the coldest place on earth. "It's an adventure story," said Exhibitions Operations Director Tom Skwerski, who worked on creating the exhibition with the Museum's partners at the Natural History Museum of Los Angeles County, the Utah Museum of Natural History, and the Discovery Place in North Carolina.

"After giving visitors background on how scientists do research in Antarctica," said Skwerski, "the exhibition reveals the fruits of that research: the dinosaurs themselves."

"We're showing real skeletons, real bones, as well as life-like sculptures of the dinosaurs set in naturalistic dioramas," said Makovicky. The immersive environment will show the world these animals lived in, complete with a dark sky streaked with shimmering light from the Aurora Australis (the southern counterpart to the Northern Lights).

(Below) A team member waits for a helicopter to pick up a fossil find and take it back to base camp.



REPORT FROM MCMURDO STATION: ANTARCTICA

BY **AKIKO SHINYA**,
CHIEF PREPARATOR,
FOSSIL VERTEBRATES

JANUARY 18, 2018

I'm back from Shackleton Glacier Camp. I was away for five weeks and am happy to report that our fieldwork was very successful! We collected roughly 5,000 pounds of rocks containing more than 200 specimens.

We conducted fieldwork in the roughly 250 million-year-old Permo-Triassic boundary. We found various reptiles, amphibians, and dicynodonts. When we found a fossil, we used a rock saw and chisel to dig the specimen out. We sometimes used plaster bandages to cap the fragile surface.



On one occasion, when Pete Makovicky and I were digging, we knew there were bits of ice in the rock, but didn't realize there was a 3-to-5-centimeter-thick sheet of ice in the bone bed. We saved as much of the specimen as we could, then took the chunk of ice back to the camp to make a drink with it!

Shackleton is comprised of temporary structures, including an airplane runway, fuel bladders, several multipurpose tents, and more than 40 individual tents. My tent was in the southeast corner of the camp, with a breathtaking view of mountains. It was such a special place!



The exhibition will feature four species of dinosaur: the twenty-five-foot-long predator *Cryolophosaurus* ("frozen crested lizard," named for the bony ornamentation on its head), the rhino-sized herbivore *Glacialisaurus*, and two new species that haven't yet been given an official scientific description. These new dinosaurs are sauropodomorphs, early relatives of the giant long-necked, four-legged herbivores like *Brachiosaurus* and titanosaurs. The new species, however, are much smaller. One juvenile specimen is about the size of a Labrador Retriever.

"I'm excited because we'll be presenting dinosaurs that have never been displayed anywhere before, species that are new to science," said Skwerski. "Visitors will see other ancient fossils too—plants, giant amphibians, and a huge carnivorous marine reptile called *Taniwhasaurus*."

In addition to the fossils and immersive environments, *Antarctic Dinosaurs* will offer hands-on experiences. "It's engaging and interactive," said Skwerski. "Visitors will be able to touch a piece of stone containing real fossils from Antarctica. There's a puzzle explaining plate tectonics—how the continents fit together—and

an interactive explaining polar light and the midnight sun. It's really cool, and it helps those concepts make sense."

"The Museum is known for dinosaurs, so it's fitting that in our 125th-anniversary year, we're presenting what visitors know and love," said Skwerski. "I'm proud this is Field Museum content, that these are our dinosaurs. The exhibition features our scientists' work, and we're finding more and more fossils that we didn't know existed. Dinosaurs in Antarctica—it blows your mind."

Antarctic Dinosaurs, presented with bilingual text in English and Spanish, will run from June 15, 2018 until January 6, 2019.

ANTARCTIC DINOSAURS IS PART OF THE GRIFFIN DINOSAUR EXPERIENCE, MADE POSSIBLE BY GENEROUS SUPPORT FROM THE KENNETH C. GRIFFIN CHARITABLE FUND.



(Above) Fossil skull of a new Sauropodomorph species of dinosaur found in Antarctica

JOHN WEINSTEIN



(Above and right) Reconstruction model of a Sauropodomorph, one of the four species of dinosaurs collected by the team in Antarctica.

BLUE RHINO STUDIO VELIZAR SIMEONOVSKI



© PHIL CURRIE

(Left) The expedition team in Antarctica in 2011.

(Below) Reconstruction of the skull of Cryolophosaurus with its distinctive crest.

RESEARCH CASTING INTERNATIONAL

"We want visitors to feel like they're traveling to Antarctica, give them a historical perspective on scientific expeditions, and then take them back in time..."

PETE MAKOVICKY, ASSOCIATE CURATOR OF DINOSAURS



(Right) *Uromys vika*, a giant possum-like rat, can crack open coconuts with its teeth

(Below) Residents of the island of Makira string bat teeth into a necklace, used as currency.

A115326D_003A / TYRONE LAVERY



SCIENTIFIC DISCOVERIES IN THE SOLOMON ISLANDS

BY CONNIE EYER

Located a thousand miles northwest of Australia, the Solomon Islands are both geographically and biologically isolated from other countries on Earth. Over half of this island nation's mammal species are found nowhere else, making it an attractive location for scientists including Field Museum Research Associate Tyrone Lavery, PhD.

Recently, Lavery and his colleagues John Vendi and Hikuna Judge made a spectacular find in the Solomons; they

discovered a giant, possum-like rat that can crack open coconuts with its teeth!

Lavery first heard rumors of this elusive tree-dwelling rat in 2010, but it wasn't until five years later that Vendi and Judge actually observed a larger-than-average rodent scurrying out of a felled tree.

"As soon as I examined the specimen, I knew it was something different," said Lavery. Although recently described, the new species, *Uromys vika*, was quickly designated as critically endangered, due to its rarity and the threat posed to its rainforest habitat by logging.

"*Vika* was hard to find and I am proud to be able to help persevere it," said Lavery.

Lavery also studies the bats of the Solomons, which play an important role in local traditions on the island of Makira: their teeth are used as currency. When Lavery learned this, he was curious how the practice played into hunting habits.

"Island flying foxes are a diverse group of bats, and they're nearly all in trouble," said Lavery. "Many

are endangered, but the effects of using their teeth as currency haven't been studied before."

Lavery and his colleague John Fasi, PhD, surveyed 197 residents to discover how the bat teeth were being used, whether the teeth were a driving factor in hunting, and how hunters might play a role in the conservation of the "flying foxes."

"The practice of hunting bats shouldn't necessarily be stopped; it needs to be managed sustainably. The continued use of traditional currency is something to be celebrated," says Lavery. "It's important for scientists to communicate with local hunters and say, 'these bats are important to your culture, but they're also vulnerable.'"

Want to see Tyrone and his colleagues in action? Go to www.youtube.com and enter keywords **"InTheField 360 Solomon Islands"** to access a video of Tyrone's fieldwork.



WHAT 100-YEAR-OLD BIRDS SAY ABOUT AIR QUALITY

BY CONNIE EYER

Horned Larks are cute little songbirds with white bellies and yellow chins—or, at least, they appear that way today. A hundred years ago, at the height of urban smoke pollution in the United States, the sooty atmosphere stained their pale feathers dark gray.

"The soot on these birds' feathers allowed us to trace the amount of black carbon in the air over time, and we found that the air at the turn of the 19th century was even more polluted than scientists previously thought," said Shane DuBay, a graduate student at the University of Chicago and research associate at the Field Museum.

To measure the changes in sootiness over the years, DuBay collaborated with Carl Fuldner, a photo historian whose research focuses on images of the environment.

DuBay and Fuldner developed a method for analyzing the bird specimens with photography. They photographed more than 1,000 specimens collected from Chicago's "manufacturing belt" and measured the light reflected off their feathers. The specimens came from five species with white feathers that show soot distinctly.

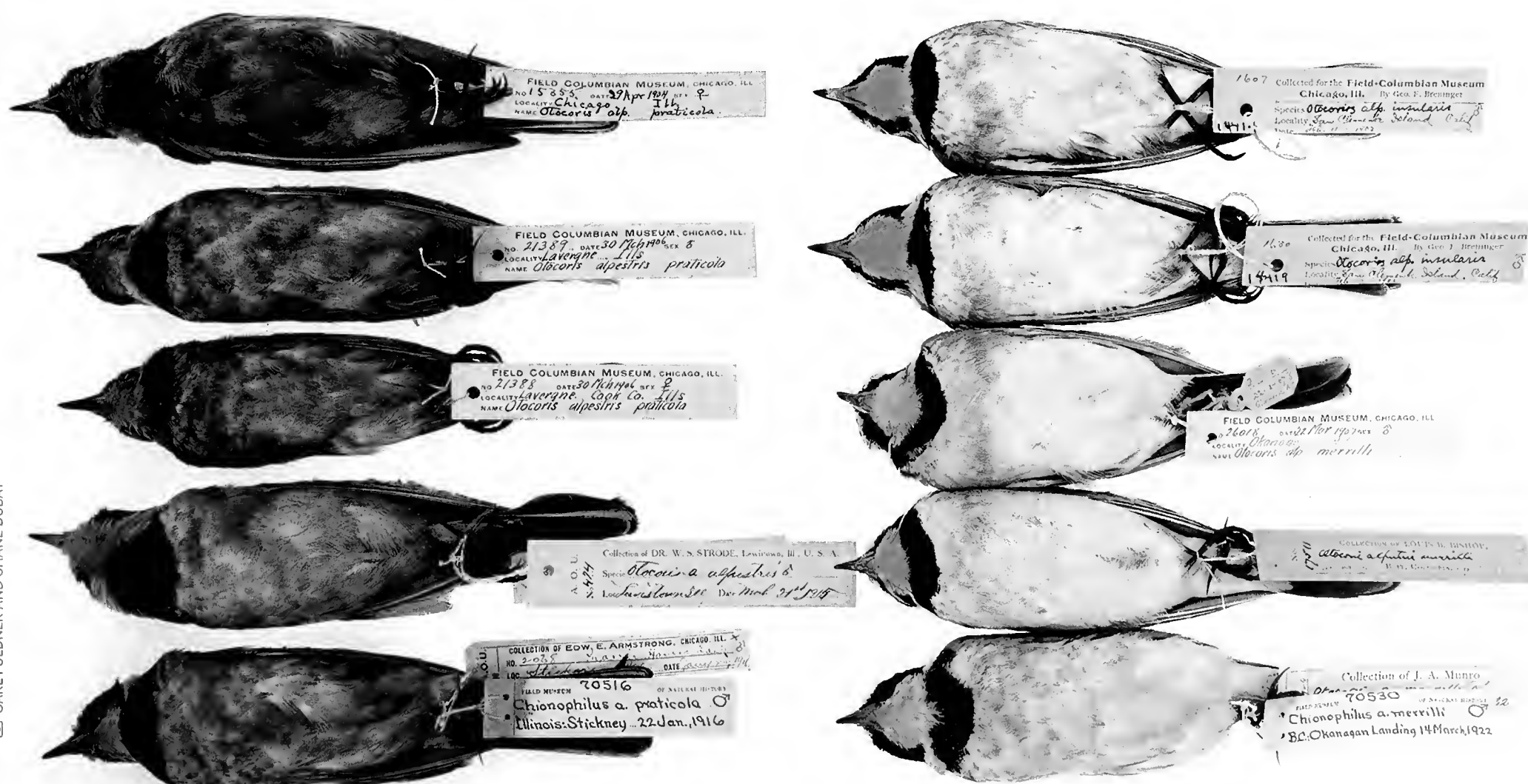
"We were surprised by the precision we were able to achieve," said DuBay. "The soot on the birds closely tracks the use of coal over time. During the Great Depression, there's a sharp drop in black carbon on the birds because coal consumption dropped—once we saw that, it clicked."

The amount of soot on the birds rebounded around World War II, when wartime manufacturing drove up coal use, but tapered quickly after the war, when people switched to natural gas to heat their homes.

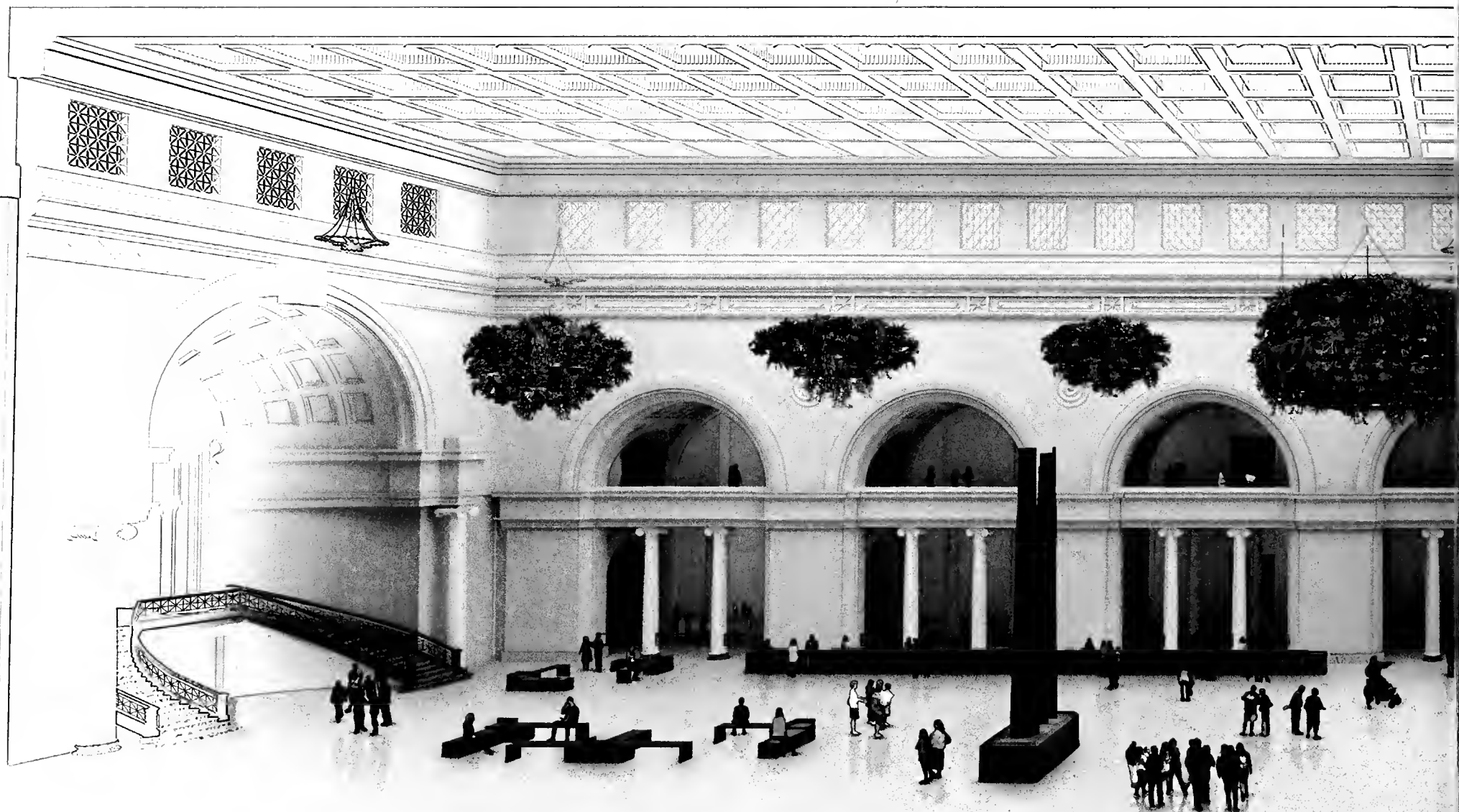
"This study shows a tipping point when we moved away from burning dirty coal; today, we're at a similar pivotal moment with fossil fuels," said DuBay. "In the middle of the 20th century, we made an investment in infrastructure and regulated fuel sources—hopefully, we can take that lesson and make a similar transition now to sustainable, renewable energy sources that are more efficient and less harmful to our environment."

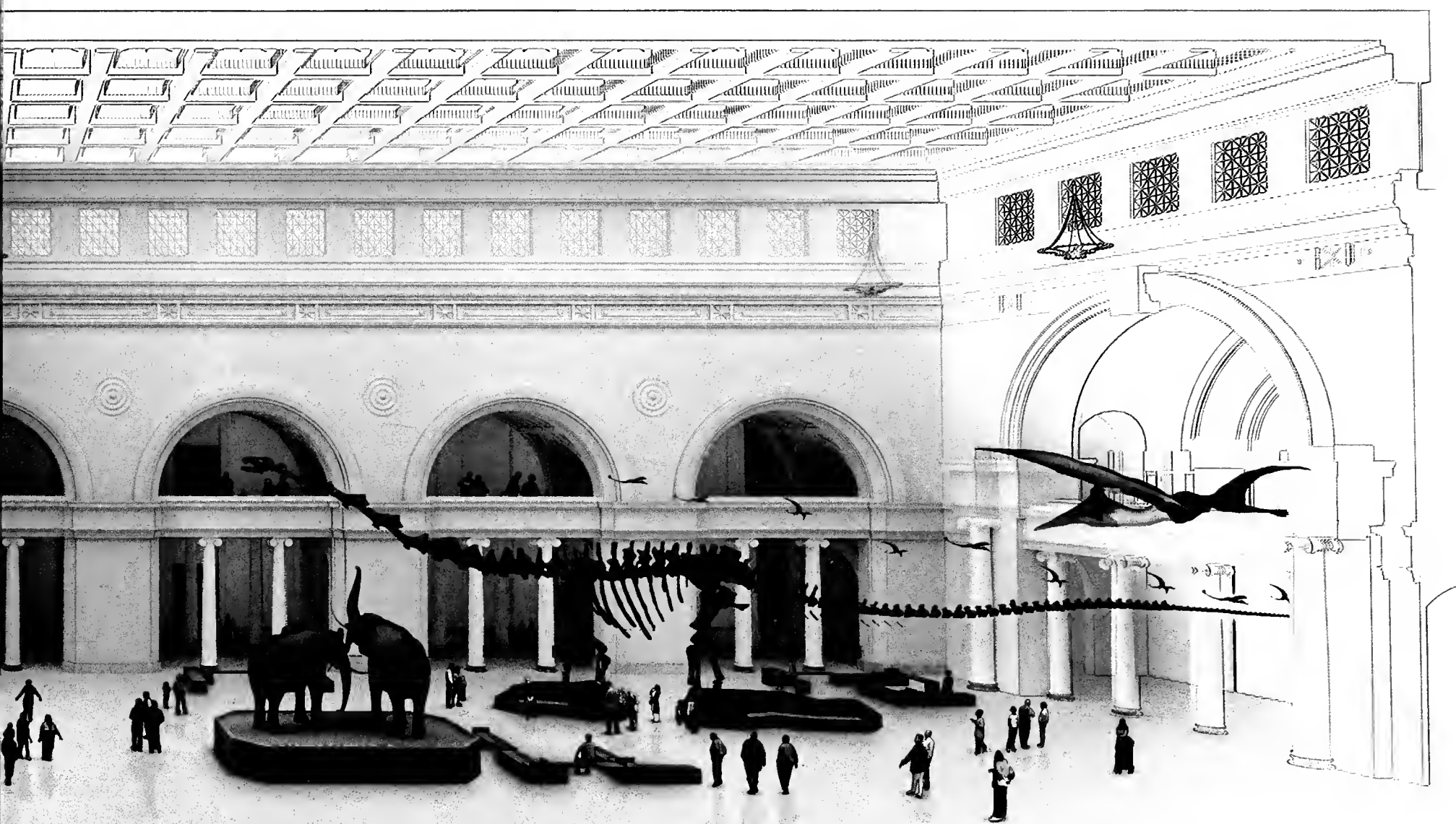
"This study shows a tipping point when we moved away from burning dirty coal; today, we're at a similar pivotal moment with fossil fuels..."

(Below) Ten Horned Larks (*Eremophila alpestris pratensis*) collected inside and outside industrial areas during the early 20th century. The specimens on the left were collected in Illinois, inside the U.S. Manufacturing Belt. The specimens on the right were collected along the western coast of North America, away from industry.



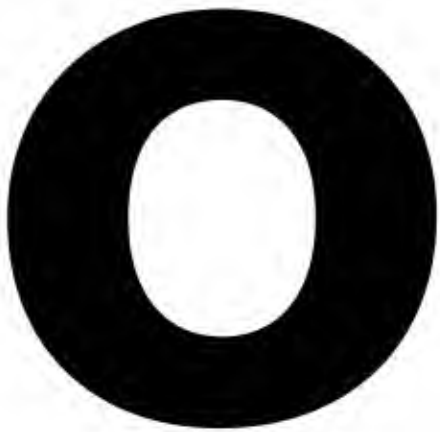
THE NEW





STANLEY FIELD HALL

By Kate Golembiewski and Chandler Garland



On your next visit to the Field Museum, get ready to see some BIG changes.

In June, the Museum plans to unveil a cast of the largest dinosaur ever discovered—*Patagotitan mayorum* [PA-tuh-go-TIE-tan my-OR-um]—a giant long-necked herbivore from Argentina that is part of a group of dinosaurs called titanosaurs.

From snout to tail, the Field's titanosaur will stretch 122 feet long, longer than two accordion CTA buses placed end to end. It will be so tall that visitors will see eye to eye with the skeletal replica from the Museum's second-floor balcony.

And the titanosaur is not alone! A flock of giant flying reptiles will join the new dinosaur, as well as innovative hanging gardens, all in commemoration of the Museum's 125th Anniversary.

"Our goal, as an institution, is to offer visitors the best possible dinosaur experience, and we want that experience to start when they first enter Stanley Field Hall, the Museum's iconic atrium," said Field Museum President Richard W. Lariviere, PhD. "The new hanging gardens and the flock of pterosaurs will take our visitors back to the age of the dinosaurs and complement the new titanosaur."

The entire display is made possible by a generous gift from the Kenneth C. Griffin Charitable Fund. The foundation is supporting these new elements in Stanley Field Hall, in addition to the traveling exhibition, *Antarctic Dinosaurs* (opening Friday, June 15), updates to SUE and the *Griffin Halls of Evolving Planet*, and new dinosaur education programs—all part of the Griffin Dinosaur Experience.

The pterosaur replicas will include nine hawk-sized *Rhamphorhynchus* (ram-foh-RINK-us), two *Pteranodon* (teh-RAN-oh-don) with 18-foot wingspans, and two giant *Quetzalcoatlus* (ket-zal-co-AHT-lus), whose wingspans each stretch 35 feet. For context, 35 feet is about the length of a city bus. It is also about the length of SUE the *T. rex*. The largest pterosaur model is so big that staff can only bring it into the building through the Museum's front doors!

"Blue Rhino, an outside fabricator, worked closely with the Museum's scientists to make sure the pterosaurs are scientifically accurate," said Bill Simpson, the head of geological collections.

"They look wonderful. They're really colorful and will capture peoples' imaginations." The flock of pterosaurs will give visitors a lifelike look at the animals that shared the planet with dinosaurs. They'll also serve as a wayfinding tool from Stanley Field Hall, leading up to the other dinosaur displays and SUE's new home in the permanent exhibition *The Griffin Halls of Evolving Planet*.

The hanging gardens will be supported by a structure created with 3D-printed plastic. The largest will be 35 feet across. Containing more than 1,000 live plants, as well as additional lighting for the Stanley Field Hall, the four garden structures will be suspended from the hall's ceiling and can be lowered during special events. The plants themselves are hydroponic, growing in inert volcanic rock instead of soil and receiving water from the ceiling of the atrium.

"These gardens will be the first of their kind, and we worked to find plants that will thrive and are similar to those living during the time of the dinosaurs: ferns, cycads, and arum plants," said Senior Exhibitions Project Manager Hilary Hansen. "The plants will make the hall come to life and will underscore our mission to study and preserve the natural world."

The new installation in Stanley Field Hall—titanosaur, pterosaurs, and hanging gardens—will be in place by June 15, in time for the opening of the *Antarctic Dinosaurs* exhibition. And even though SUE is temporarily off display, don't worry! Museum staff members are currently designing and fabricating the new *SUE Experience*, scheduled to open in March 2019. Stay tuned for more details.



© BLUE RHINO

THE GRIFFIN DINOSAUR EXPERIENCE IS MADE POSSIBLE BY GENEROUS SUPPORT FROM THE KENNETH C. GRIFFIN CHARITABLE FUND.



And the titanosaur will not be alone! A flock of giant flying reptiles will join the new dinosaur, in commemoration of the Museum's 125th Anniversary.

(Opposite) An artist from Blue Rhino fabricators paints realistic details onto a pterodon replica.

(Above) An artist's rendering of Stanley Field Hall showing the new titanosaur and flock of pterosaurs.

Be a part of *Something BIG!*
For more information, visit:
fieldmuseum.org/SomethingBIG





(Above) Two Peruvian beer vessels have been added to the *Mummies* exhibition, now on view through April 21 of next year.

☒ (TOP) A115330D_011A / JOHN WEINSTEIN
☒ (BOTTOM) A115331D_010C / JOHN WEINSTEIN

MUMMIES AND BEER

BY CHANDLER GARLAND

Since at least 7,000 BC, the peoples of the Andes mummified their dead and deposited funerary objects alongside their remains. Some of the more spectacular objects interred within elite Andean burials include two large beer jars, currently on display in the *Mummies* exhibition, now open through January 2019.

The two jars form part of the Emilio Montez collection, a private collection of ancient Peruvian objects acquired by the Museum from the World's Columbian Exposition. "We don't have an exact archaeological context for the jars, but given their state of preservation, they may have been grave offerings or kept in a royal Inca estate," explained Associate Curator Ryan Williams, PhD, and director of the Cerro Baul Research Program in Peru.

Not shown during the New York or Los Angeles legs of the tour, the two urpu are exclusive to the Chicago *Mummies* exhibition.

The vessels, known as *urpu*, were made of clay from Cuzco, the one-time capital of the Inca Empire, and contained maize beer known as *chicha*. This drink was likely consumed on a daily basis, but played a key role in ritual events, including diplomatic negotiations, holidays, celebrations, marriages, and funerals.

The Inca fabricated urpu in various sizes to transport and store liquids and possibly food. Llamas can only bear about 30 kilograms, so urpus were carried by people using straps wound around the vessels. The conical base made pouring from a heavy urpu easy; the jar was usually set into soft ground and tipped, avoiding the need to lift it, thereby minimizing spills.

Not shown during the New York or Los Angeles legs of the tour, the two urpu are exclusive to the Chicago exhibition. "These vessels are difficult to travel, but they have been added to the Field's showing of *Mummies* to illustrate more of the Inca culture, the last and largest of the Andean empires that practiced mummification before the Spanish conquest," said Williams.

Some archaeologists have argued these highly decorated jars may represent the royal body of the Inca because their decorative designs and patterns resemble those of royal tunics, which only Inca royalty wore. During some Inca feasts, mummified remains of past emperors were brought out while revelers drank, danced, and celebrated.

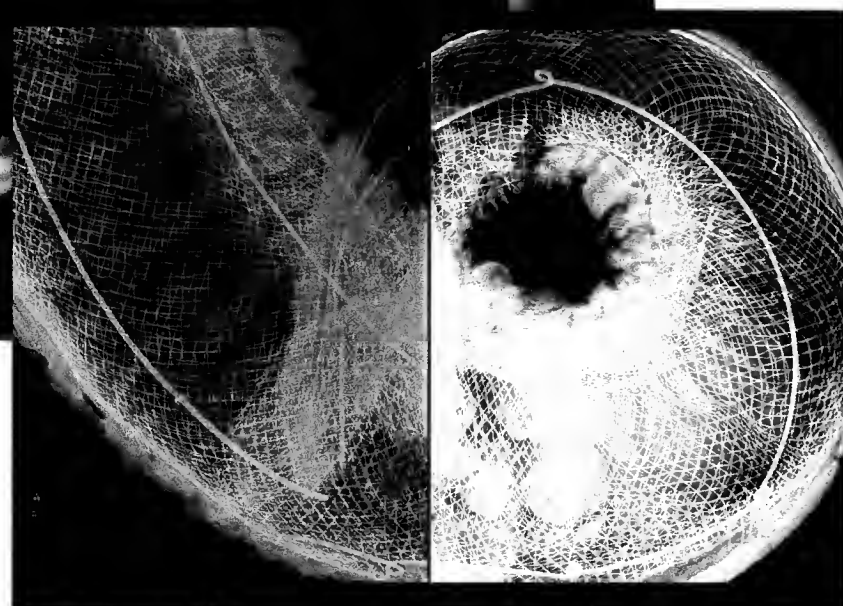


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CONSERVING AKELEY'S AFRICAN ELEPHANTS

BY CHANDLER GARLAND

The African Elephants are cracking! But not to worry; a team of conservation specialists is on the case. Icons of the Museum and focal points of Stanley Field Hall, the taxidermied elephants have been on display for over a century: first at the Field's old Jackson Park home and then in the Museum's iconic Grant Park location since 1921. Constant exposure to light and temperature fluctuations (dangerous factors other Field Museum specimens are protected from inside their climate-controlled display cases and storage

areas) has accelerated wear and tear on the elephants' hides.

The Field Museum's Chief Conservator Stephanie Hornbeck is leading a team of conservators and taxidermy experts to assess the elephants for damage and needed repairs. They are looking for cracks, tears, delamination of skin, and sites of older repairs. The initial assessment has already revealed a number of fissures, as well as the compromised structure of one of the ears and trunk of the smaller elephant. Parts of the elephants have also been x-rayed to ascertain the integrity of the internal armatures. These X-ray images allow the team to study the loose trunk and damaged ear on a structural level so effective repairs can be recommended and made.

When the elephants were fabricated in 1907, Carl Akeley, the Museum's legendary master taxidermist, first created a skeletal armature of wood, metal, and the creature's own bones. This structure was

then covered with plaster, over which the animal's preserved skin was applied. Each wrinkle seen on the elephants' hides was hand-sculpted by Akeley. His artistry and attention to detail are what make these elephants appear soft and life-like.

"Akeley's ultimate goal was not just recreating and portraying the truth of nature, but doing it in such a permanent style," said John Janelli, an expert taxidermist working with the team. The Fighting African Elephants are scientific specimens and historical artifacts, but also works of art.

(Above left) Conservator Eugenie Milroy of Art Conservation LLC examines and photographs the larger elephant's trunk.

(Above right) X-ray image of the smaller elephant's trunk.

YAGUAS

By Nigel Pitman

National
Park

ON THE AFTERNOON OF WEDNESDAY, JANUARY 10, 2018 A NOISY CELEBRATION RIPPLED THROUGH THE OFFICES OF PERU'S PARK SERVICE IN LIMA.

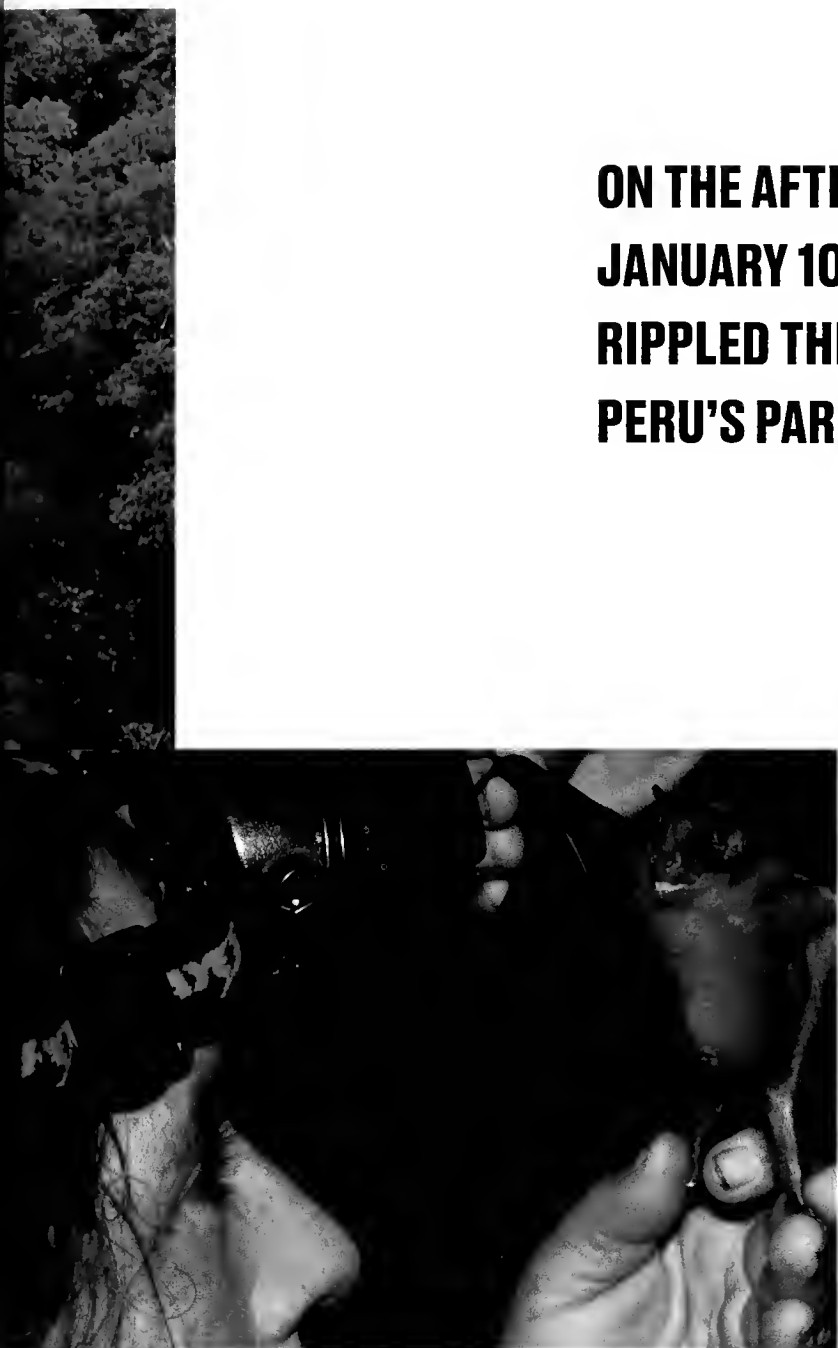
Word had arrived the presidential cabinet had just given final approval for Yaguas National Park, a two-million-acre wilderness area in Amazonian Peru. Minutes later, the celebratory whoops and hugs had spread 4,000 miles north, to the third floor of the Field Museum, where the Keller Science Action Center's rapid inventory team has been working to protect Yaguas since 2003.

There were celebrations in and around the new park, too. For years, Indigenous communities along the neighboring Putumayo River had been requesting formal protection of the Yaguas watershed to safeguard a rich source of the fish, bushmeat, and other forest products they have depended on for millennia, and to combat illegal logging and mining. The new park also represents a keystone in Indigenous federations' long-standing vision of a mosaic of native and conservation lands, spanning the Peruvian Putumayo.

The Field Museum's 2003 rapid inventory marked the first time biologists visited the Yaguas watershed. That remote, roadless corner of the Amazon is a long way from Chicago, but visitors to the Field Museum may know it better than they realize. Anyone who has seen the rapid inventory film playing in the Museum's *Abbott Hall of Conservation: Restoring Earth* has seen Yaguas—since much of the footage was shot there during the Museum's second rapid inventory in 2010. (If you haven't seen the movie yet, be sure to stop by during your next visit. It's worth it just to hear a succession of dazed biologists in the field describe the diversity they're encountering as "amazing... astonishing... dreamy... unique... and headache-inducing.")

None of that is hyperbole. The Yellowstone-sized Yaguas National Park sits in the heart of the world's biodiversity hotspots for woody plants, amphibians, birds, mammals, and fishes. During the 2010 rapid inventory, the fish biologists documented 294 different species in just 15 days (and nights) of fieldwork—which means that every 24 hours they came across at least 20 new kinds of fish they hadn't encountered in the previous days. Their astonishing estimation that the Yaguas drainage harbors more than half of Peru's entire freshwater fish fauna is one of the main reasons the area is a park today.

Yaguas is the 18th park the Field Museum's rapid inventory team has helped South American governments establish since 1999, by providing the biological and social science necessary for establishing new reserves. To date more than 21 million acres have been protected, all in close collaboration with local communities to ensure conservation areas have the active support of people who know the landscape best. "In the case of Yaguas, this is an amazing story of cultural resilience," says Corine Vriesendorp PhD, leader of the Andes-Amazon program at the Field Museum. "Local residents are descendants of people who survived the horrors of the rubber boom little more than 100 years ago. Securing this space is not just a tribute to its fantastic biodiversity, but also to the cultural diversity of the Bora, Mürui, Tikuna, Kichwa, Ocaina, and Yagua people who live nearby."



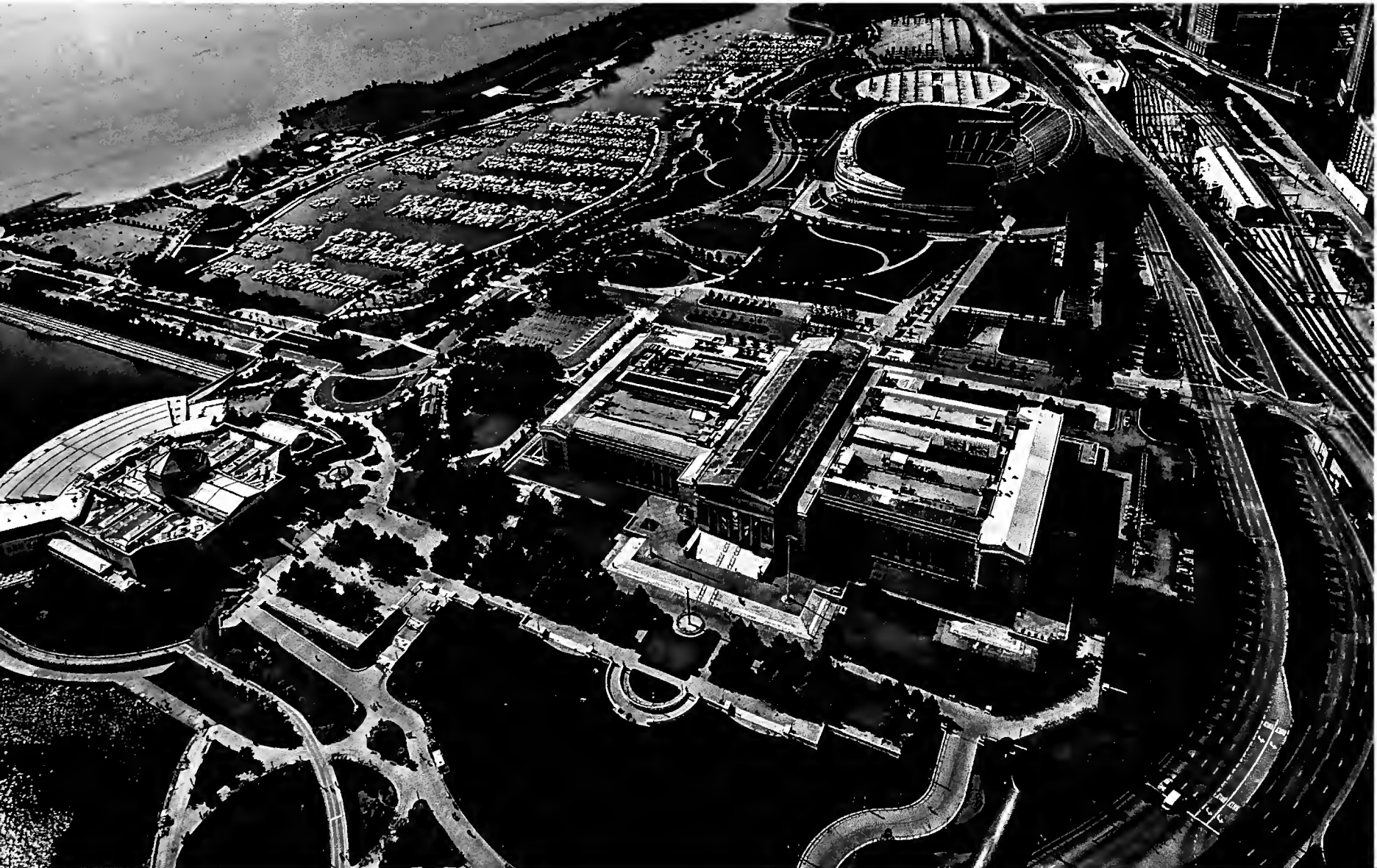
(Above, top) A member of the rapid inventory team examines a bat.

(Above, bottom) A poisonous dart frog from the genus *Ranitomeya*.

(Left) A view of one small part of the Yaguas watershed, taken from the expedition's helicopter.

Major support for the Field Museum's Andes-Amazon programs is generously provided by an anonymous donor, the Bobolink Foundation, Mike and Lindy Keiser, the John D. and Catherine T. MacArthur Foundation, the Gordon and Betty Moore Foundation.

MUSEUM CAMPUS CELEBRATES 20TH ANNIVERSARY



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1985

BY FRANCK MERCURIO

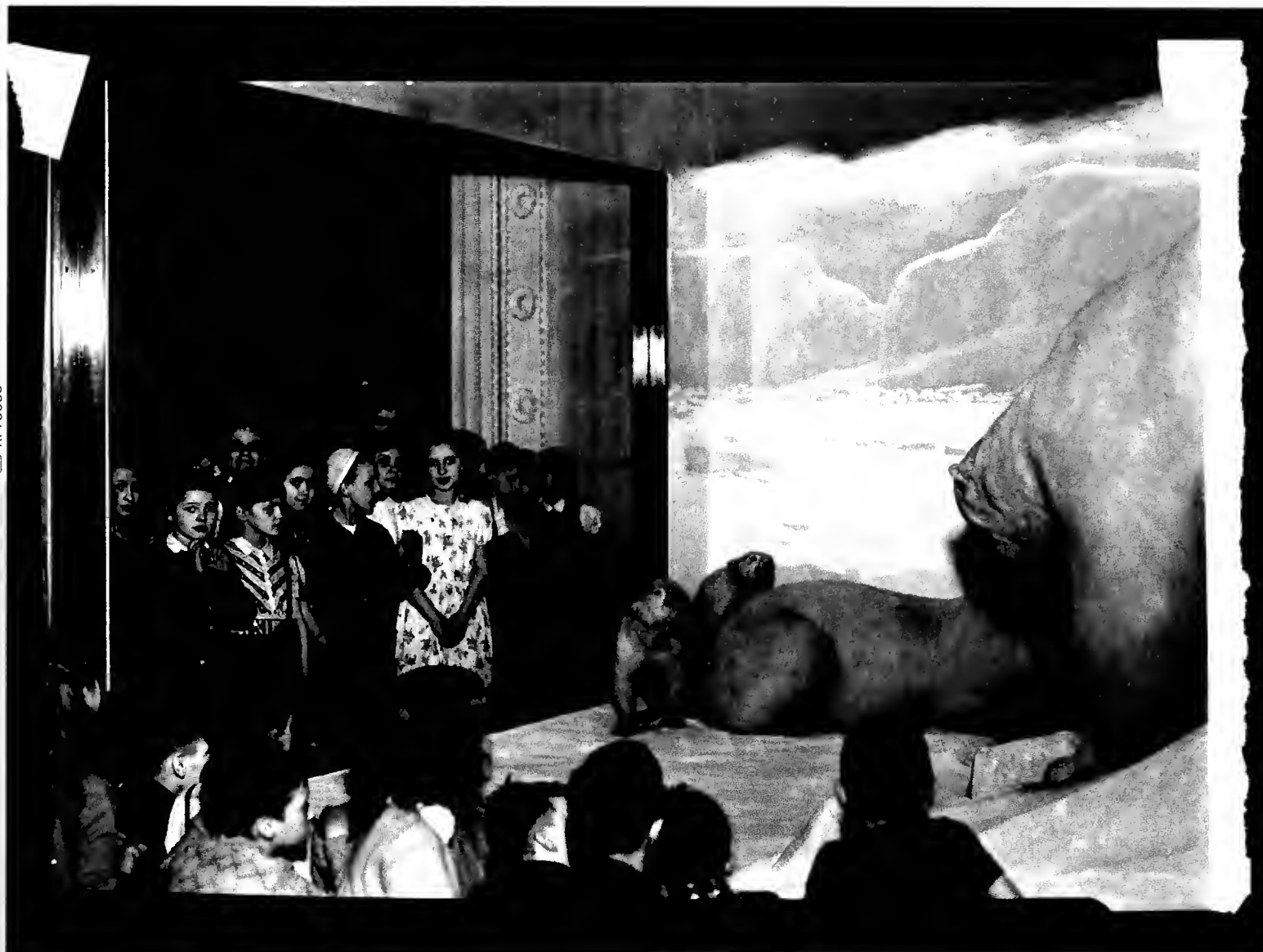
The Museum Campus, as we know it today, didn't always exist. Before 1996, the northbound lanes of Lake Shore Drive forked at McCormick Place, separating the Field Museum and Soldier Field from the Shedd Aquarium, Adler Planetarium, and Burnham Harbor. Since the 1960s, elected officials and urban planners had suggested rerouting the northbound lanes to the west side of the Field Museum, but the project wasn't started until 1994.

Between 1996 and 1998, the acres of concrete parking lots, along with the old northbound lanes, were transformed into green parkland by the famed landscape architect Lawrence Halprin, unifying all the buildings into one campus. The Museum Campus officially opened to the public on June, 4, 1998. Sandy Boyd, president of the Field Museum at the time the project started, called it "one of the pivotal moments in the city's history with respect to the lakefront."



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(Left) A group of school children in 1947 view the polar bear display while a Raymond Foundation lecturer explains how these animals live among the ice floes in the far north.



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Then and Now

EDUCATIONAL PROGRAMS AT THE FIELD

BY FRANCK MERCURIO

From the Museum's early history through today, there has been strong philanthropic support for educational programs at the Field. In 1925, Anna Louise Raymond established the Raymond Foundation at the Museum to provide programming for students and hire "guide-lecturers" for school kids attending field trips. Today, corporations such as ITW provide similar support for 175,000 students and teachers annually, helping to make their field trip experiences at the Museum more engaging and inspiring. (See page 4.)

Although field trips are core educational programs, the staff of the Museum's Learning Center has expanded programming to capture even more diverse audiences. Several long-time donors have supported these newer endeavors: Crown Family PlayLab, Grainger Digital Media Studio, and Grainger Science Hub. All of these initiatives emphasize hands-on learning to engage people of all ages and abilities.

Member Opportunities



VELIZAR SIMEONOVSKI

ANTARCTIC DINOSAURS + TITANOSAUR

Member and Donor Preview Days

Wednesday, June 13 and Thursday, June 14, 9am–5pm
(no reservations needed)

Member and Annual Fund Viewing and Lecture

Thursday, June 14, 5:30–9pm, featuring Curator Pete Makovicky
For more information, visit fieldmuseum.org/memberevents.

Founders' Council Griffin Dinosaur Experience Opening Event, including official unveiling of the titanosaur

Thursday, June 21 from 6–9pm



GN91969_141D / KAREN BEAN

MEMBER-ONLY DOCENT TOURS

Join us this summer for member-only tours highlighting our temporary exhibitions. Tours will be led by Field Museum docents, who will give in-depth looks at *Mummies* and *Antarctic Dinosaurs*. For dates and details, visit fieldmuseum.org/memberevents.



ZACHARY JAMES JOHNSTON

A SCIENTIST WALKS INTO A BAR

Want to know why the dinosaurs really became extinct or why lichens live forever? Join the Field Museum at The Hideout (1354 W. Wabansia in Chicago) for drinks and discussions about all manners of natural history with scientists who study everything from ancient meteorites to urban farming practices in Chicago.

Every second Tuesday of the month at 6:30 pm

Tickets are \$5.

June 12: Antarctic Dinos with Akiko Shinya



SCIENCE AND SLUSHIES

In honor of National LGBT Pride Month, the Field Museum's scientists are taking over Sidetrack (3349 N. Halsted in Chicago) for an evening of cocktails and curiosity. For a donation of \$10, enjoy one drink and appetizers on us (21+ only). Proceeds will benefit Project Fierce, which works to create transitional housing for homeless LGBTQ youth in Chicago. This event is hosted by Outfielders, the LGBTQ affinity group at the Field Museum.

Tuesday, June 19, at 6pm

For up-to-date information for all member events, visit FIELDMUSEUM.ORG/MEMBEREVENTS





Museum Store

Even though the Field Museum was established over a century ago, the ideas researched inside the building and out in the field are as modern and forward thinking as ever—and so is our new logo! Show your pride in this place where science happens every day with our Museum-branded merchandise, sold exclusively in Field Museum Stores and online. Remember, Field Museum members receive a 10 percent discount on all purchases, in-store and online, and each purchase helps support the Field Museum's ongoing educational and research efforts.

Visit us online today at store.fieldmuseum.org or call us at 312.665.7686.

125th-Anniversary Special Exhibitions

Mummies (open now through April 21, 2019)

Antarctic Dinosaurs (June 15, 2018 to January 6, 2019)

The Peregrine Returns (now through June 24, 2018)

Looking at Ourselves: The Sculptures of Malvina Hoffman (now through February 3, 2019)

Full Circle / Omani Wakan: Lakota Artist Rhonda Holy Bear (now through January 13, 2019)

Drawing on Tradition: Kanza Artist Chris Pappan (now through January 13, 2019)

City Windows (now through June 30, 2018)

Climate Indicators (Grainger Science Hub) (now through July 25, 2018)

Museum Hours

The Field Museum is open from 9am–5pm every day except Christmas, with last admission at 4pm. **For special hours, visit fieldmuseum.org/visit**



Museum Campus Neighbors

ADLER PLANETARIUM

This summer at the Adler Planetarium, six sky shows from around the world will take you on an asteroid mining mission, a trip deep inside our Sun, a tour of the giant space telescope that will soon peer into the distant past—and so much more. The Adler Summer Film Fest begins May 25 in our newly renovated Definiti Space Theater and runs through September 3.

For details, visit www.adlerplanetarium.org

SHEDD AQUARIUM

A new exhibition, *Underwater Beauty*, opens May 25 and features 100 of the aquatic world's most beautiful species. *Washed Ashore: Art to Save the Sea* has expanded to include three more outdoor sculptures portraying aquatic animals, created entirely from plastic beach debris. *Jazzin' at the Shedd* returns June 20 and continues every Wednesday night, beginning at 5 pm, through October 10.

For details, visit www.sheddaquarium.org

The Field Museum salutes the people of Chicago for their long-standing support of the Museum through the Chicago Park District



Official Airline of
the Field Museum



Refer a friend*

for a 15% off membership and receive
three additional months FREE!



Your friends will enjoy the same great membership benefits:

- + Complimentary basic admission
- + Complimentary tickets to *Mummies* and *Antarctic Dinosaurs* exhibitions
- + FREE reciprocal admission to 200+ science and technology museums
- + Invitations to member-only viewings of special exhibitions
- + Plus many more great benefits

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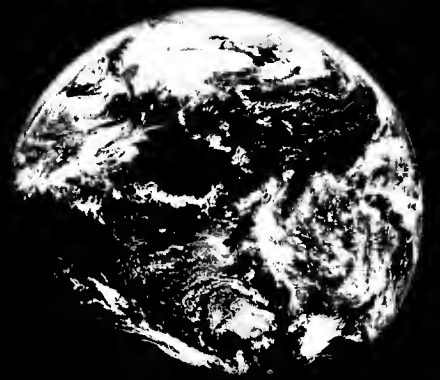
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